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E7.6-10178  
CR-146371

LANDSAT Follow-On Investigation Program #21260

Program Progress Report #1

Reporting Period Coverage:

June 19--September 19, 1975

September 19--December 19, 1975

Submitted By: Ira S. Latimer, Jr.

Project Principal Investigator

Date Submitted:

January 19, 1976

(E76-10178) CONTRIBUTION OF ERTS-B TO  
NATURAL RESOURCE PROTECTION AND RECREATIONAL  
DEVELOPMENT IN WEST VIRGINIA Progress  
Report, 19 Jun. - 19 Dec. 1975 (West  
Virginia Dept. of Natural Resources) 3 p HC G3/43

N76-18599

HC \$3.50

Unclas

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#### A. Problems

The main problem which has occurred with the LANDSAT Program within the first two reporting periods involves the adoption of a subcontract. The time interval between when the original project was proposed to NASA and the final NASA-DNR Contract was signed created a need to re-organize the program's period of performance, cost factors, work target area and the detailed objectives.

Also, the DNR commitment of one full time employee with another being planned to work with the program increased the State's involvement. DNR is committed to the development of an "in-house" capability for using LANDSAT imagery. After the program was re-structured to include these new considerations, a subcontract was signed January 7, 1976.

#### B. Accomplishments

The increase in the Department of Natural Resources' involvement in the program can be considered an accomplishment for the program. The DNR has assigned one full time employee to work with the program and is planning to assign another. This change will enable the Department to work on "in-house" remote sensing projects and to work closer with each division in DNR to train representatives in the use of satellite imagery and aircraft photography. Also, the DNR has taken over the responsibility of organizing the progress reports, technical reports, and final report. This means that approximately 30-40% of the program funds which would have been used by the EarthSat Corporation for organizing and writing reports can now be used for actual project work. We expect the amount of actual research work to almost double. These changes should show significant results for the development and usage of LANDSAT imagery for the State of West Virginia and the National Aeronautics and Space Administration. Also, the extended involvement of the DNR should enable West Virginia to carry the program forward after the NASA-DNR Contract has ended, and will allow the most benefit for the program.

#### C. Significant Results

No significant results relating to practical applications or operational problems have been made, because the actual research has just begun.

#### D. Publications

No publications have been made at this time.

#### E. Recommendations

No program recommendations can be made at this time.

F. Funds Expended

No funds have been expended at this stage of the program.

G. Data Use

Value of Data Allowed	Value of Data Ordered	Value of Data Received
\$3100.00		\$ 624.00

A selection of imagery from LANDSAT I & II is now in process.

H. Aircraft Data

Value of Data Allowed	Value of Data Ordered	Value of Data Received
\$9876.00	\$1488.00	\$3628.00

I. Summary Comments

The contracting part of the program was delayed, but other parts of the project have received organizational attention and progressed such as:

A. Detailed objectives and the geographical areas to be included in the study have been chosen. EarthSat is currently organizing specific project tasks that DNR has recommended.

B. Two remote sensing workshops are being planned to be held in May and June of 1976. Attendants will be taught remote sensing technology and applications. The operational procedure for the workshops will involve a lab-lecture arrangement to insure participant involvement. Also, a proposal has been submitted to West Virginia University to make the workshop a credit course for attendants.

C. Some cooperative and "in-house" projects are being organized such as: a project with the Parks and Forestry Divisions of DNR to use LANDSAT Imagery in the State's Naturalist Program for emphasizing regional ecology factors instead of individual factors, a project to help the Wildlife Division of DNR to determine wild turkey habitat, and a project to use LANDSAT Imagery to provide information to a cooperative study being conducted by DNR and the Nature Conservancy (1800 North Kent Street, Arlington, Va.) on unique ecological areas in West Virginia. The study is entitled the West Virginia Heritage Trust Program.

All of these projects and ideas will very soon be aided by the usage of LANDSAT Imagery and airplane photography to provide a meaningful and worthwhile LANDSAT Follow-On Investigation Program.